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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/560,096	12/09/2005	Shinya Maenosono	2005-1924A	1091	
7590 02/07/2007 Wenderoth Lind & Ponack			EXAMINER		
Suite 800			THANH, LOAN H		
2033 K Street N W Washington, DC 20006			ART UNIT	PAPER NUMBER	
,			. 3763		
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		02/07/2007	DADED		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)				
Office Action Summans	10/560,096	MAENOSONO ET AL.				
Office Action Summary	Examiner	Art Unit				
	LoAn H. Thanh	3763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 09 De	ecember 2005.					
·	action is non-final.					
3) Since this application is in condition for allowar	<u></u>					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
•	priority under 35 H S C & 110(a)	. (d) or (f)				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 						
 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	(PCT Rule 17.2(a)).					
Coo and attached detailed office detail for a list	5 00 00 00 pioù not 1000 pio					
Attachment(s)						
1) Motice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
Notice of Diatisperson's Patent Diawing Review (PTO-946) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/09/05. 5) Notice of Informal Patent Application Other:						

Application/Control Number: 10/560,096

Art Unit: 3763

DETAILED ACTION

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/09/05 was filed before the first office action on the merits. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Allen et al. (US 6,334,856 B1).

Allen et al. discloses a pad having microneedles/minute needle composed of biodegradable resin and administering a drug. Allen discloses the microneedles to be made of a biodegradable polymer such as lactic acid and glycolic acid. See col. 4, lines 48-54. Further, Allen et al. disclose the microneedles can be porous or hollow and

Art Unit: 3763

dimensions as claimed in col. 5, lines 37-64. Allen et al. teach the transdermal microneedles device to have a drug reservoir. The reservoir containing one or more drugs to be delivered through pores/ hollow centers or the microneedles itself can be formed of the biodegradable polymer containing an active agent such that the drug reservoir if within the matrix of the one or more of the microneedles. See col. 17, lines 13-40. See figures and col. 8:50-9:15, 11:10- 12:12, 15:13-17:57. With respect to claims 5,11-13 are considered anticipated when the drug is flowing through the lumen of pores of the microneedles. Allen et al. disclose the length of the microneedles to be between 1 micron and 1mm, and the diameter between 10nm and 1mm. Since the outer diameters are discloses as preferably between 1 – 100 micron, it would be inherent that the inner diameter would be encompassed within the 10-490 micron that applicant claimed.

Claims 1,3-7,10,12-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Dalton et al. (US 2004/0049150).

Dalton et al. disclose a pad having microneedles extending therefrom which are made of a biodegradable polymer such as lactic acid and glycolic acid. Dalton et al. further disclose in figure 5B a central bore having a reservoir medium loaded therein. See page 4, paragraph 0038. Dalton et al. also teach the microneedles coated with a glassy sugar reservoir medium containing a vaccine. See figure 1-7. The size parameters of the microneedles are disclosed as having a length between 1 micron to 1 mm preferably between 50 and 600 micron.

Art Unit: 3763

Conclusion

Page 4

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. D'Ussel US 2004/0010237 disclose microneedles made of biodegradable materials such as sugars, salts and other like products for maintaining sharp tip shape for insertion and for providing safety precaution of breakage of the microneedles which is biodegradable in the patient.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LoAn H. Thanh whose telephone number is (571) 272-4966. The examiner can normally be reached on Mon. - Fri. (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on (571) 272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/560,096

Art Unit: 3763

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000:

LoAn H. Thanh Primary Examiner Art Unit 3763